Performing calibration and periodic preventive maintenance provides the highest level of monitor performance and quality end-tidal CO\textsubscript{2} (etCO\textsubscript{2}) sampling. The schedule is based on the number of operating hours, which can be accessed any time by checking the information screen in service mode.

**Preventive Maintenance**

**Capnostream™ 20 and Capnostream™ 20p bedside monitors, Microcap™ handheld capnographs, Nellcor™ N85 handheld capnograph/pulse oximeter, and Capnostream™ 35 portable respiratory monitors**

Perform maintenance after 20,000 or 30,000 operating hours, depending on the type of module.

- The information on the service screen gives the number of hours remaining until servicing or calibration is required.
- To access the service screen, select SYSTEM from the menu bar at the bottom of the home screen, and then select SERVICE.
- Return the monitor to Medtronic for service. Contact Medtronic technical services for instructions.

To schedule maintenance, contact Medtronic technical services at 1-800-255-6774, option 1. Or email hqtsweb@ovidien.com for more information.

**OEM capnography patient monitors**

Periodic preventive maintenance should be performed after 20,000 or 30,000 operating hours, as per the recommendation, of the particular module in your system. Refer to the operator’s manual or contact the service department of the monitor’s manufacturer.

**Battery life**

The Capnostream™ 20, Capnostream™ 20p and Capnostream™ 35 monitors utilize a Lithium-Ion rechargeable battery. Battery back-up time may degrade over time. To avoid degradation of battery capacity, it is recommended that the battery pack be replaced every two years.
Calibration Schedule

**Capnostream™ 20 and Capnostream™ 20p bedside monitors, Microcap™ and Microcap™ Plus handheld capnographs, Nellcor™ N85 handheld capnograph/pulse oximeter, and Capnostream™ 35 portable respiratory monitors**

“Calibration Required” is displayed on the monitor when it is time to calibrate. To maintain optimal performance, clinicians should immediately contact the biomedical/clinical engineering department to perform the calibration. Refer to operator’s manuals for calibration details.

For questions about calibration for Medtronic monitors, contact Medtronic technical services at 1-800-255-6774, option 1. Or email hqtsweb@ovidien.com for more information.

**OEM capnography patient monitors**

New OEM units are delivered factory calibrated. After installation, an initial calibration should be performed at 1,200 operating hours.

Following the initial calibration, biomedical/clinical engineering should perform calibration every 4,000 operating hours or annually, whichever comes first.

Specifications for Calibration Gas for CO₂ Measurement System

**Type**
5% carbon dioxide, 21% oxygen, balance nitrogen

**Cylinder size**
BD aerosol cylinder

**Method of preparation**
Gravimetric

**Accuracy**
0.03% absolute

**Moisture**
10 ppm maximum

**Expiration period**
2 years

**Pressure**
144 psig

**Volume**
10 liters

**Product code**
Z03NI748BDC002 (legacy number T4653ORF-2BD)-2-pack. Please refer to either number when ordering.

Calibration Kit Ordering Information

Order calibration kits through Airgas, Scott Medical Products Division

Airgas
Scott Medical Products Division
6141 Easton Rd
Plumsteadville, PA 18949
800-233-4334, option 2

For customers with access to calibration gas, obtain calibration kit from Medtronic, part number RS09251.